

**IN THE ABSTRACT OF THE DISCLOSURE:**

Please cancel the abstract and insert the following new abstract which is attached to the end of this amendment.

AN APPARATUS AND METHOD FOR DETECTING  
RADIATION THAT USES A STIMULABLE PHOSPHOR

ABSTRACT OF THE DISCLOSURE

Apparatus and method for radiation measurement suitable for use within and outside nuclear reactor or accelerator facilities when there is a need to perform real-time monitoring of radiation intensity over a wide dynamic range at many and broadly distributed sites of measurement. The apparatus and method are based on two principles: constant radiation monitoring and integrating measured radiation with a stimutable phosphor.